Name: Harshal Patil

> db.student.insertMany([

... {

... "Name": "Ram",

... "Roll Number": 1,

... "Branch": "IT",

... "CGPA": 8.8,

... "Native City": "Pune"

... },

... {

... "Name": "Patil",

... "Roll Number": 2,

... "Branch": "COMP",

... "CGPA": 7,

... "Native City": "Mumbai"

... },

... {

... "Name": "Harshal",

... "Roll Number": 3,

... "Branch": "COMP",

... "CGPA": 9,

... "Native City": "Pune"

... },

... {

... "Name": "Sita",

... "Roll Number": 4,

... "Branch": "COMP",

... "CGPA": 7.6,

... "Native City": "Kolkata"

... }

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("651f9b8a40173f2715897f9d"),

ObjectId("651f9b8a40173f2715897f9e"),

ObjectId("651f9b8a40173f2715897f9f"),

ObjectId("651f9b8a40173f2715897fa0")

]

}

> db.students.updateOne(

... {roll:1},{$set:{name:"name1"}})

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.students.find({name:"name1"})

{ "\_id" : ObjectId("651fa52e40173f2715897fa8"), "roll" : 1, "name" : "name1", "cgpa" : 8.7, "native\_city" : "Mumbai" }

> db.students.remove({name:"name1"})

WriteResult({ "nRemoved" : 1 })

> db.students.find()

{ "\_id" : ObjectId("651fa52e40173f2715897fa9"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "native\_city" : "Pune" }

{ "\_id" : ObjectId("651fa52e40173f2715897faa"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "native\_city" : "Pune" }

> db.students.find({roll:2})

{ "\_id" : ObjectId("651fa52e40173f2715897fa9"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "native\_city" : "Pune" }

> db.students.insertOne(

... {roll:1,name:"ram",cgpa:7.1,native\_city:"Pune"})

{

"acknowledged" : true,

"insertedId" : ObjectId("651fa6d640173f2715897fab")

}

> db.students.find({cgpa:{$gte:8.4}})

{ "\_id" : ObjectId("651fa52e40173f2715897fa9"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "native\_city" : "Pune" }

{ "\_id" : ObjectId("651fa52e40173f2715897faa"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "native\_city" : "Pune" }

> db.students.find({cgpa:{$gte:8.5}})

{ "\_id" : ObjectId("651fa52e40173f2715897fa9"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "native\_city" : "Pune" }

> db.students.update({name:"ram"},{$set:{cgpa:9.9}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.students.find({name:"ram"})

{ "\_id" : ObjectId("651fa6d640173f2715897fab"), "roll" : 1, "name" : "ram", "cgpa" : 9.9, "native\_city" : "Pune" }

> db.students.find($or:[

... {cgpa:{$gte:8.4}},{branch:{$eq:"COMP"}}])

2023-10-06T12:00:49.168+0530 E QUERY [thread1] SyntaxError: missing ) after argument list @(shell):1:20

> db.students.find(

... {$or:[{cgpa:9},{branch:"COMP"}]})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 8.7, "branch" : "COMP", "native\_city" : "Mumbai" }

{ "\_id" : ObjectId("651faa1540173f2715897fad"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 3, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.find(

... {branch:{$ne:"COMP"}})

> db.students.update(

... {roll:3},{$set:{branch:"IT"}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.students.find()

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 8.7, "branch" : "COMP", "native\_city" : "Mumbai" }

{ "\_id" : ObjectId("651faa1540173f2715897fad"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 3, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.updateOne(

... {name:"Suresh"},{$set:{roll:4}})

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.students.find(

... {$ne:{branch:"COMP"}})

Error: error: {

"ok" : 0,

"errmsg" : "unknown top level operator: $ne",

"code" : 2,

"codeName" : "BadValue"

}

> db.students.find(

... {branch:{$ne:"COMP"}})

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

> db.students.find(

... ^C

> db.students.update(

... {name:"ram"},{$set:{cgpa:7}})

WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })

> db.students.update( {name:"Ram"},{$set:{cgpa:7}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.students.find(

... {$and:[{cgpa:7},{native\_city:"Mumbai"}]})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 7, "branch" : "COMP", "native\_city" : "Mumbai" }

> db.students.find(

... {$or:[{cgpa:9},{branch:"COMP"}]})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 7, "branch" : "COMP", "native\_city" : "Mumbai" }

{ "\_id" : ObjectId("651faa1540173f2715897fad"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 4, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.save(

... {roll:5,name:"Sita",cgpa:9.0,native\_city:"Pune"})

WriteResult({ "nInserted" : 1 })

> db.students.remove({name:"Sita"})

WriteResult({ "nRemoved" : 1 })

> db.students.find({cgpa:{$max:"$cgpa"}})

> db.students.find(

... {branch:"COMP"}).sort({cgpa:-1}).limit(1)

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 4, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.find(

... {branch:"COMP"})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 7, "branch" : "COMP", "native\_city" : "Mumbai" }

{ "\_id" : ObjectId("651faa1540173f2715897fad"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 4, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.remove(

... {name:"ram"})

WriteResult({ "nRemoved" : 0 })

> db.students.find(

... {$or:[{cgpa:9},{branch:"COMP"}]})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 7, "branch" : "COMP", "native\_city" : "Mumbai" }

{ "\_id" : ObjectId("651faa1540173f2715897fad"), "roll" : 2, "name" : "Patil", "cgpa" : 8.5, "branch" : "COMP", "native\_city" : "Pune" }

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 4, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.find(

... {branch:{$ne:"COMP"}

... })

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

> db.students.find(

... {branch:{$ne:"COMP"}})

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

> db.students.find(

... {$and:[{native\_city:"Mumbai"},{cgpa:7}]})

{ "\_id" : ObjectId("651faa1540173f2715897fac"), "roll" : 1, "name" : "Ram", "cgpa" : 7, "branch" : "COMP", "native\_city" : "Mumbai" }

> db.students.find(

... {branch:{$ne:"COMP"}})

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

> db.students.find( {branch:"COMP"}).sort({cgpa:-1}).limit(1)

{ "\_id" : ObjectId("651faa1540173f2715897faf"), "roll" : 4, "name" : "Suresh", "cgpa" : 9, "branch" : "COMP", "native\_city" : "Pune" }

> db.students.find(

... {branch:{$ne:"COMP"}})

{ "\_id" : ObjectId("651faa1540173f2715897fae"), "roll" : 3, "name" : "Harshal", "cgpa" : 8.4, "branch" : "IT", "native\_city" : "Pune" }

>